

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of)	
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Richard Uhlig, et al.)	Examiner: Unassigned
)	
Serial No.: Unassigned)	Art Unit: Unassigned
)	
Filing Date: Unassigned)	
)	
For: Method For Resolving Address Space)	
Conflicts Between A Virtual Machine)	
Monitor And A Guest Operating)	
System)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant hereby request consideration of the enclosed Information Disclosure Statement pursuant to 37 C.F.R. § 1.97(c).

Attached are the PTO Forms 1449 and Forms 892 from the parent application filed on December 27, 2000, (Serial No. 09/752,587). This previous application is relied upon for an earlier filing date under 35 U.S.C. 120.

Pursuant to C.F.R. 1.98(d), copies of the references are not being provided herewith since they were previously sent to the patent and Trademark Office. Please consider theses cited documents in the currently pending 1.53(b) continuation in part application filed October 4, 1999.

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I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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September 30, 2003
Date

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: September 30, 2003



Marina Portnova
Reg. No. 37,850

Customer No. 008791
12400 Wilshire Blvd.
Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-8300

Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number	09/752,587	
				Filing Date	December 27, 2000	
				First Named Inventor:	Gilbert Neiger, et al.	
				Group Art Unit	2187	
				Examiner Name	Takeguchi, K.	
Sheet	1	of	1	Attorney Docket Number	042390.P9768	
U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
		5,437,033		Inoue, Taro, et al.	07-25-1995	
		5,737,604		Miller, David A., et al.	04-07-1998	

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Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
			WO 02 17555	A	Verisign, Inc.	02/28/2002		
			WO 01 75564	A	Intel Corporation	10/11/2001		
			WO 02 086684	A	Hewlett Packard	10/31/2002		

OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		KARGER, PAUL A., et al., "A VMM Security Kernel for the VAX Architecture," Proceedings of the Symposium on Research in Security and Privacy, 5/7/1990, pp. 2-19, XP010020182, ISBN: 0-8186-2060-9, Boxborough, MA.	
		CHIEN, ANDREW A., et al., "Safe and Protected Execution for the Morph/AMRM Reconfigurable Processor," 7th Annual IEEE Symposium, FCCM '99 Proceedings 4/21/1999, pp. 209-221, XP010359180, ISBN: 0-7695-0375-6, Los Alamitos, CA.	
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		PCT Search Report dated 7/29/03 (U.S. Patent No. '075 Previously cited).	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/752,587
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	

U.S. PATENT DOCUMENTS						
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		Number Code ²	Kind (If known)			
		4,037,214		Richard E. Birney, et al.	07-19-1977	
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		6,314,409	B2	Paul B. Schneck, et al.	11-06-2001	
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		Office ³ Code ⁵	Number ⁴	Kind (If known)				
			JP76139A0		Nippon Telgr. & Telph. Corp.	03-14-2000		

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Page 2 of 2	First Named Inventor: Richard Uhlig, et al.	
	Filing Date: December 27, 2000	

OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
		IBM Technical Disclosure Bulletin, "Information Display Technique For A Terminate Stay Resident Program," Vol. 34, Issue No. 7A, Pages 156-158, December 1, 1991.	

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Notice of References Cited	Application/Control No. 09/752,587	Applicant(s)/Patent Under Reexamination NEIGER ET AL.	
	Examiner Kathy Takeguchi	Art Unit 2187	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

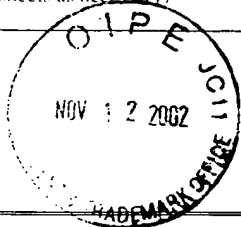
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	LAWTON, K. "Running Multiple Operating Systems Concurrently on an IA32 PC Using Virtualization Techniques,"; http://www.plex86.org/research/paper.txt , pages 1-31. Last Updated 11/29/1999.
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Attorney Docket No.:
042390.P9768

Application Number:
09/752,587

Page 2 of 2



First Named Inventor:
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Filing Date:
December 27, 2000

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OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
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KT		MOTOROLA, M68040 User's Manual (Including the MC68040, MC68040V, MC68LC040, MC68EC040, and MC68EC040V), Revised 1993	
KT		ROSENBLUM, M., "VMware's Virtual Platform™ A Virtual Machine Monitor for Commodity PCs," Proceedings of the 11th Hotchips Conference, Stanford University Palo Alto, California, pages 185-196, August 1999	

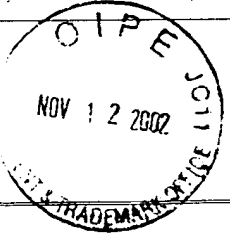
Examiner Signature	<i>Richard Uhlig</i>	Date Considered	5-15-2003
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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Date for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768 Application Number: 09/752,587	
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
Filing Date: December 27, 2000		RECEIVED NOV 1 3 2002	



U.S. PATENT DOCUMENTS					Technology Center 2100	
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
KT		5,455,909		James S. Blomgren, et al.	10-03-1995	

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Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³ Code ⁵	Number ²	Kind (If known)				
KT			EP0600112	A1	Siemens Nixdorf Information System	06-08-1994		X Abstract only
KT			EP0930567	A3	Texas Instruments, Inc.	07-21-1999		
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KT			WO 98/44402		British Telecommunications Public Limited Company	10-08-1998		
KT			WO 99/05600		Apple Computer, Inc.	02-04-1999		
KT			WO 99/09482		Siemens Nixdorf Information System	02-25-1999		X Abstract only
KT			WO 99/57863		International Business Machines Corp.	11-11-1999		
KT			WO 00/62232		Digital Media On Demand, Inc.	10-19-2000		

Examiner Signature: <i>[Signature]</i>	Date Considered: 5-15-2003
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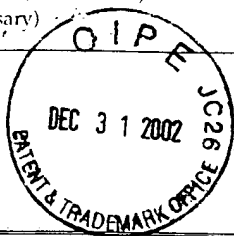
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(use as many sheets as necessary)

ge 1 of 2



Attorney Docket No.:
042390.P9768

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First Named Inventor:
Richard Uhlig, et al.

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U.S. PATENT DOCUMENTS

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		Office ³ Code ⁵	Number ⁴	Kind (If known)				
					Technology Center 2100			

OTHER ART - NO PATENT LITERATURE DOCUMENTS

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27		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Chapter 4, Memory Management, pages 61-97, 1993	

Examiner
Signature

Kathy Takeguchi

Date Considered
5-15-03

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Page 1 of 3		First Named Inventor: Gilbert Neiger, et al.	
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U.S. PATENT AND PATENT APPLICATION DOCUMENTS						
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		Number	Kind Code ² (If known)			
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		2001/0027527	A1	Yuri Khidekel, et al.	10-04-2001	
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		Office ³ Code ⁵	Number ⁴	Kind (If known)				
			EP 1030237	A1	Hewlett Packard Company	08-23-2000		
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		6,505,279	B1	Gary Phillips, et al.	01-07-2003	

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)	Attorney Docket No.: 42390.P9768	Application Number: 09/752,587
Page 3 of 3	First Named Inventor: Gilbert Neiger, et al.	
	Filing Date: December 27, 2000	

OTHER ART – NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s), publisher, city and/or country where published	Translation ²
		TRUSTED COMPUTING PLATFORM ALLIANCE (TCPA), Main Specification Version 1.1a, 321 pages, Copyright 2000-2001	

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/752,587
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	

U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³ Code ⁵	Number ⁴	Kind (If known)				

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		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Chapter 4, Memory Management, pages 61-97. 1993	

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Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
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Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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Page 2 of 2	First Named Inventor: Richard Uhlig, et al.	
	Filing Date: December 27, 2000	

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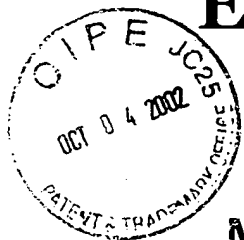
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
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Electronic Information Disclosure Statement

METHOD FOR RESOLVING ADDRESS SPACE CONFLICTS BETWEEN A VIRTUAL MACHINE MONITOR AND A GUEST OPERATING SYSTEM

Application:



09/752587

Confirmation: 1639

Applicant(s): Richard Uhlig

Docket

Number:

042390P9768

Group Art

Unit:

Examiner: Unassigned

search string: (4,278,837 or 4,307,214 or 4,366,537 or 4,521,852 or 5,075,842 or 5,022,077 or 5,255,379 or 5,293,424 or 5,421,006 or 5,459,869 or 5,473,692 or 5,479,509 or 5,568,552 or 5,615,263 or 5,657,445 or 5,717,903 or 5,729,760 or 5,764,969 or 5,796,845 or 5,805,712 or 5,835,594 or 5,844,986 or 5,890,189 or 5,937,063 or 5,978,481 or 5,987,557 or 6,014,745 or 6,058,478 or 6,158,546 or 6,175,925 or 6,178,509 or 6,205,550 or 6,282,651 or 6,282,657 or 20010037450).pn.

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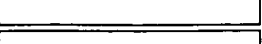

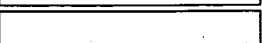


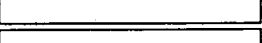

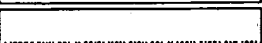




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US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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Published Applications

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
KT	U01	20010037450	2001-11-01		Metlitski, et al.		

Remarks

(Remarks are not for responding to an office action.)

Applicants, in accordance with their duty of disclosure under 37 CFR 1.56 and in accordance with 37 CFR 1.97(b)(3), hereby submit this Electronic Information Disclosure Statement citing U.S. Patent Documents for consideration by the Examiner. * Pursuant to 37 CFR 1.97, the submission of this Electronic Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability. * This Information Disclosure Statement is being filed prior to a substantive examination of the claims. Pursuant to 37 CFR 1.97(b), no fee should be required for the filing of this Information Disclosure Statement. In the event it is determined that a fee is due, please charge the fee to Deposit Account 02-2666. * Applicants respectfully requests that the cited documents be considered and that the form be initialed by the Examiner to indicate such consideration and a copy thereof be returned to Applicants' attorney of record. *

Signature

Examiner Name	Date
	5-15-2003